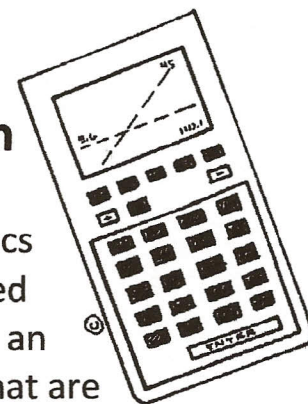


Mentoring Mathematical Minds ~ Summer Math



It was Stanley Gudder who once said, "The essence of mathematics is not to make simple things complicated, but to make complicated things simple." The goal of this course is to provide students with an opportunity to develop the reasoning and critical thinking skills that are essential for intellectual inquiry, and at the heart of Stanley Gudder's ideas. This course will focus on building these mathematical skills through problem solving, puzzles, and experiences that are aligned with the Mentoring Mathematical Minds (M^3) Curriculum.

Dates/Location:

The course will be held Monday, July 19 - Friday, July 23 at Ambrose School. Sessions run from 8:30-12:30 each day.

Grades Targeted:

The course is for students who have completed grades 3, 4 or 5.

Target Audience:

This course is intended for students who excel in mathematics, and is not designed for students who need remediation in math. This course will provide students with the chance to complete challenging academic work in the company of peers who share their exceptional abilities and love of mathematics. Students who wish to complete this course should have a solid understanding of general mathematics (including a grasp of their basic facts and exposure to basic story problems), as well as a desire to ask questions and discuss mathematical ideas. Throughout the course, these students will be challenged to explore their understanding of mathematics, develop their individual and group problem solving skills, and expand their critical thinking.

Curriculum Units:

In line with the National Council of Teachers of Mathematics (NCTM) recommendations, these units seek to engage students in meaningful explorations, and extend their understanding of basic probability, algebra, and numeration. The particular lessons/ investigations that are conducted from each unit, will be based on student readiness at the time of the course.

Level 5 *What are Your Chances?*

In this unit, students begin their exploration of probability as a measurement of the likelihood of events, culminating with a class “carnival of chance.”

Level 4 *At the Mall with Algebra*

As students represent and analyze mathematical situations using algebraic symbols, this unit helps students to understand the basic notion of equality and equivalent expressions. They learn how variables are used to represent change in quantities and also to represent a specific unknown in an equation.

Level 3 *Unraveling the Mystery of the Moli Stone*

In this unit, *Unraveling the Mystery of the Moli Stone*, students explore our numeration system in depth. Students begin by looking at patterns in our system and then work with other systems to help discover what constitutes a place-value system and a base system.

To enroll in this course, please fill out the attached form and return it to Tara Tully. There is no program fee (the program is paid for by the Murphy Foundation).

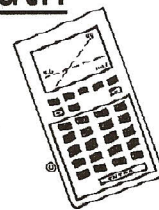
*Tara Tully
Ambrose School
27 High Street.
Winchester, MA 0180*

For other questions/information, please contact:

Amy Johnson
ajohnson@winchester.k12.ma.us

Tara Tully
ttully@winchester.k12.ma.us

Registration for Mentoring Mathematical Minds ~ Summer Math



Student Name: _____

Grade (please indicate the grade your child will be entering in the fall): _____

School: _____ Date of Birth: _____

Home Address: _____

Parent/Guardian: _____

Phone Number: _____

E-mail: _____

Medications/Food Allergies: _____

Is there any other information that we should know about your child?

Course Information:

Mentoring Mathematical Minds ~ Summer Math

Monday, July 19 - Friday, July 23 at Ambrose School.

Sessions run from 8:30-12:30 each day. Students should bring a snack.

Winchester Summer Enrichment Program Waiver:

All registrants and their guardians agree to the following policy: in consideration of your accepting my/my child's registration. I hereby, for myself, my heirs, executors and administrators, waive and release any and all rights and claims for damages. I, or my child, may give against the Town of Winchester, its elected and appointed officials, agents and employees, for any and all injuries suffered by my child or me at this activity. I understand that the Town of Winchester does not have accident or medical insurance on those participating in its programs.

I understand and accept this policy as written:

Parent Signature

Date

Thank you for your information.

You will be notified to confirm your registration for this course.